

# United States Patent and Trademark Office



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/499,369	02/07/2000	Toshitsugu Wakabayashi	1190-0437P	1167	
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Birch Stewart Kolasch & Birch LLP			EXAMINER		
P O Box 747 Falls Church, V	A 22040-0747		TRAN, TRANG U		
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			DATE MAILED: 08/28/2002	DATE MAILED: 08/28/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

R. C.

Office Action Summary    Saminer			Application No.	Applicant(s)			
Examiner   Trang U. Tran   Z814	Office Action Summary		09/499,369				
Trang U. Tran							
— The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edenticis of time may be available under the provisions of 37 CPR 1.136(a). In an event, however, may a ruply be limitly filled after 50 Key (6) MCNTHS from the mailing date of this communication, may within the statutory minimum of thiny (30) days will be considered timely, and the provision of the communication of the provision of							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Sedeminos of time may be available under the provisions of 3° CFR 1.35(a). In no event, however, may a reply be timely filed Sedeminos of time may be available under the provisions of 3° CFR 1.35(a). In no event, however, may a reply be timely filed Sedeminos of ormany be quotiented may be a sedeminos of 3° CFR 1.35(a). In no event, however, may a reply be timely filed.  If the parod for reply sepocified above, the maximum statutory proved will apply and will septis S(6) (MONTFS from the making date of this communication.  False to reply within the sid of extended period for reply will, by statusic, cause the application to become ABANCONEO (30 LS C) § 133).  Provided the second patent term adjustment. Sea 3° CFR 1.704(b).  Status  1) Responsive to communication(s) filled on source except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-19 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1-19 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1-6.10-15 and 17-19 is/are rejected.  7) Claim(s) 1-6.10-15 and 17-19 is/are rejected.  7) Claim(s) 2-6 and 16 is/are objected to.  8) Claim(s) 2-6 and 16 is/are objected to restriction and/or election requirement.  Application Papers  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Application papers  11) The proposed drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. § 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified c	D		<u> </u>				
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 3 CPR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication.  If this puriod or proly seather have one is less than this (90) days, a neply within the ablation principle of the provision of 3 CPR 1.136(a). In this puriod of the provision of 3 CPR 1.136(a) in no event, however, may a reply to the mailing date of this communication.  Failure to reply within the set or extended pends for reply will by stability, cause the application to become ABANDONIED (95 U.S. 0.15 133).  Any reply received by the Office last than three maining date of this communication, even if timely filed, may reduce any eventual term adjustment. Set 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filled on			V 10 0ET TO EVOIDE - MONTH	0) 50014			
1) Responsive to communication(s) filed on  2a) This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-19 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  7) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  Application Papers  9) The proposed drawing correction filed on is: a) accepted or b) objected to by the Examiner.  Application may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received in Application No  3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional appl	THE - External control	MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl D period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing	I36(a). In no event, however, may a reply be ting ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C) § 133).			
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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-4, 10-14, and 17-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Murayama et al. (US Patent No. 6,346,936).

In consider claim 1, Murayama et al. discloses all the claimed subject matter, note 1) the claimed an image signal processing circuit receiving an image signal and processing the image signal for display as an image is met by the RGB signal processing circuit (Fig. 1, col. 1, lines 20-26), 2) the claimed an image display unit receiving the image signal processed by the image signal processing circuit, and displaying the processed image signal as an image on a screen is met by the LCD panel 30 of the LCD display (Fig. 1, col. 1, lines 31-37), and 3) the claimed a control circuit varying a characteristic of the image signal in a periodic manner is met by the

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timing generator 4 which comprises the PLL circuit 41, the timing generating unit 46 and the phase shifter 47 as show in Fig. 5 (col. 5, line 36 to col. 6, line 12).

In consider claim 2, the claimed wherein the image is divided into spatial lines and temporal frames, and the control circuit alter said characteristic once per spatial line in each temporal frame is met by the timing generator 4 which comprises the PLL circuit 41, the timing generating unit 46 and the phase shifter 47 as show in Fig. 5 (col. 5, line 36 to col. 6, line 12).

In consider claim 3, the claimed wherein the control circuit also alters said characteristic once per said temporal frame in each said spatial line is met by the timing generator 4 which comprises the PLL circuit 41, the timing generating unit 46 and the phase shifter 47 as show in Fig. 5 (col. 5, line 36 to col. 6, line 12).

In consider claim 4, the claimed wherein the control circuit comprises a timing circuit receiving a first synchronizing signal indicating said spatial lines and a second synchronizing indicating said temporal frames, and generating a timing signal by dividing a frequency of the first synchronizing signal, toggling the timing signal once per said spatial line and reversing a phase of the timing signal once per said temporal frame, said characteristic being controlled according to the timing signal is met by the timing generator 4 which comprises the PLL circuit 41, the timing generating unit 46 and the phase shifter 47 as show in Fig. 5 (col. 5, line 36 to col. 6, line 12).

In consider claim 10, the claimed further comprising a control unit that determines a resolution of the image signal and activates the control circuit, depending

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on the resolution is met by the control input which is input from the external of the timing generator 4 (col. 5, lines 58-67).

In consider claim 11, the claimed further comprising an external control for activating the control circuit if the displayed image includes a moire pattern is met by the control input which is input from the external of the timing generator 4 (col. 5, lines 58-67).

Claims 12-14 are rejected for the same reason as discussed in claims 1-3, respectively.

In consider claim 17, the claimed wherein said step of periodically varying further comprises the step of periodically delaying the image signal is met by the phase shifter 47 (col. 5, lines 60-67).

Claims 18-19 are rejected for the same reason as discussed in claims 10-11, respectively.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5-6 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murayama et al. (US Patent No. 6,346,936) in view of Nishino Kenji (JP Patent No. 06-12195).

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In consider claim 5, Murayama et al. disclose all the limitations of the instant invention, except for providing the claimed wherein the control circuit has a variable inductance element, and varies said characteristic by passing the image signal through the variable inductance element. Nishino Kenji teaches that the level control circuit 35 is amplified while the police box voltage from the police box voltage generating circuit 10 is supplied to the current amplification circuit 37 and transformed into current. Coil L1 which is attached in the color neck of a cathode-ray tube section, and generates vertical alternating field between the output terminal of this current amplification circuit 37, and grounding as show in drawing 5(A) and (B) and the series circuit of L2 (the respectively separate core is looped around) and the series circuit of a resistor 38 are connected (Page 2, lines 45-59). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate A coil L1 and L2 as taught by Nishino Kenji into Murayama et al's system in order to reduce the moiré generated with the color cathode-ray tube which used the shadow mask and the aperture grille.

In consider claim 6, the claimed wherein the variable inductance element comprises a coil having a primary winding and a secondary winding, the image signal passing through the primary winding, the control circuit alternately opening and closing the secondary winding is met by A coil L1 and L2 (Fig. 5, Page 2, lines 45-59).

Claim 15 is rejected for the same reason as discussed in claim 5.

Allowable Subject Matter

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5. Claims 7-9 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 7-9 and 16 identify the uniquely distinct features "wherein said characteristic is an amplitude characteristic, and the control circuit comprises: a first amplifier circuit amplifying the image signal with a first gain characteristic; a second amplifier circuit amplifying the image signal with a second gain characteristic differing from the first gain characteristic; and a timing circuit selecting the first amplifier circuit and the second amplifier circuit alternately". None of references of record, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Rindal et al (US Patent No. 6,020,939) disclose method and apparatus for reducing electromagnetic interference radiated by cathode ray tube displays.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Trang U. Tran** whose telephone number is **(703) 305-0090**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **John W. Miller**, can be reached at **(703) 305-4795.** 

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## Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

TT TT August 26, 2002

JOHN MILLER

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600